

FIG. 1

EXAMPLE OF DVD-R IN WHICH
PRE-PIT IS FORMED ON LAND TRACK

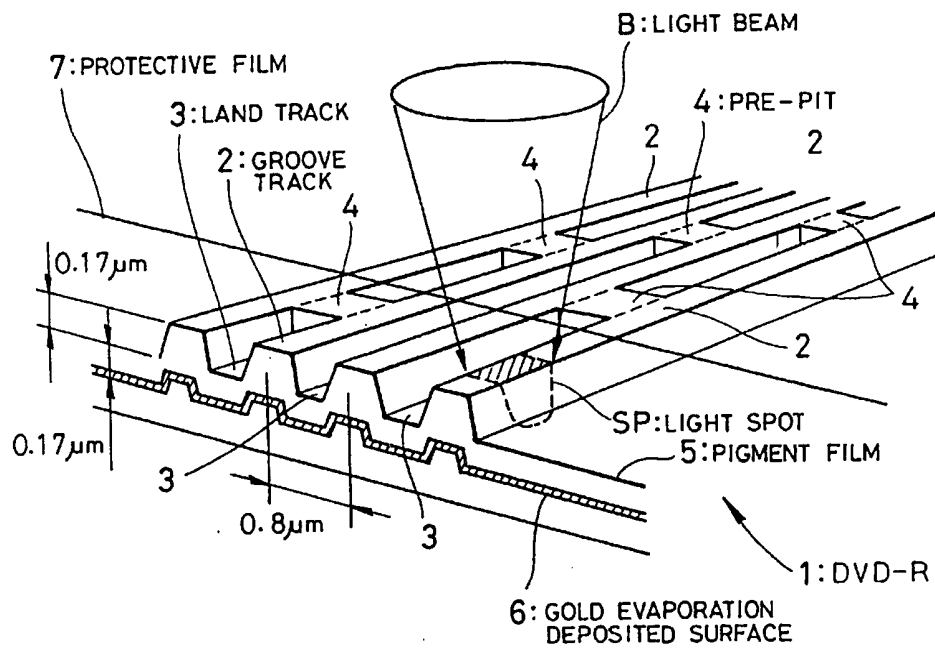
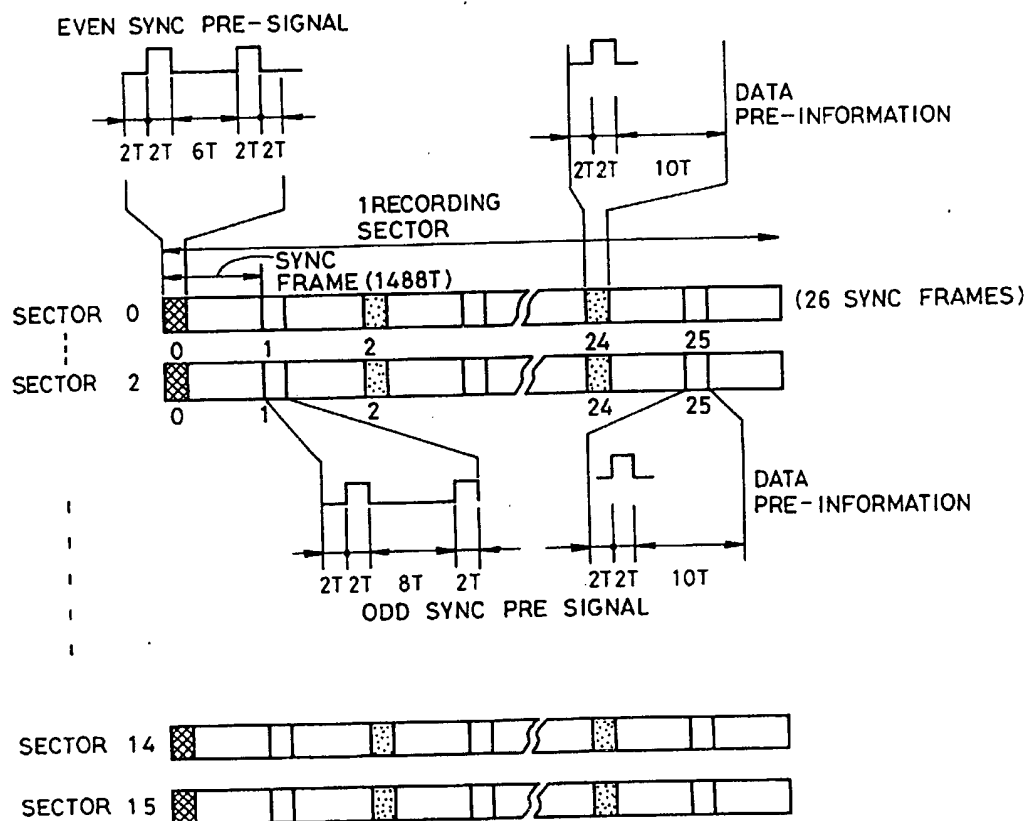





FIG. 2

RECORDING FORMAT OF
PRE-INFORMATION OR
RECORDING INFORMATION



 EVEN FRAME
 ODD FRAME
 SYNC SIGNAL

SECTOR 0: RECORDED IN
EVEN FRAME
 SECTOR 2: RECORDED IN
ODD FRAME

FIG. 3

DETECTION PATTERN OF
SYNC PRE SIGNAL

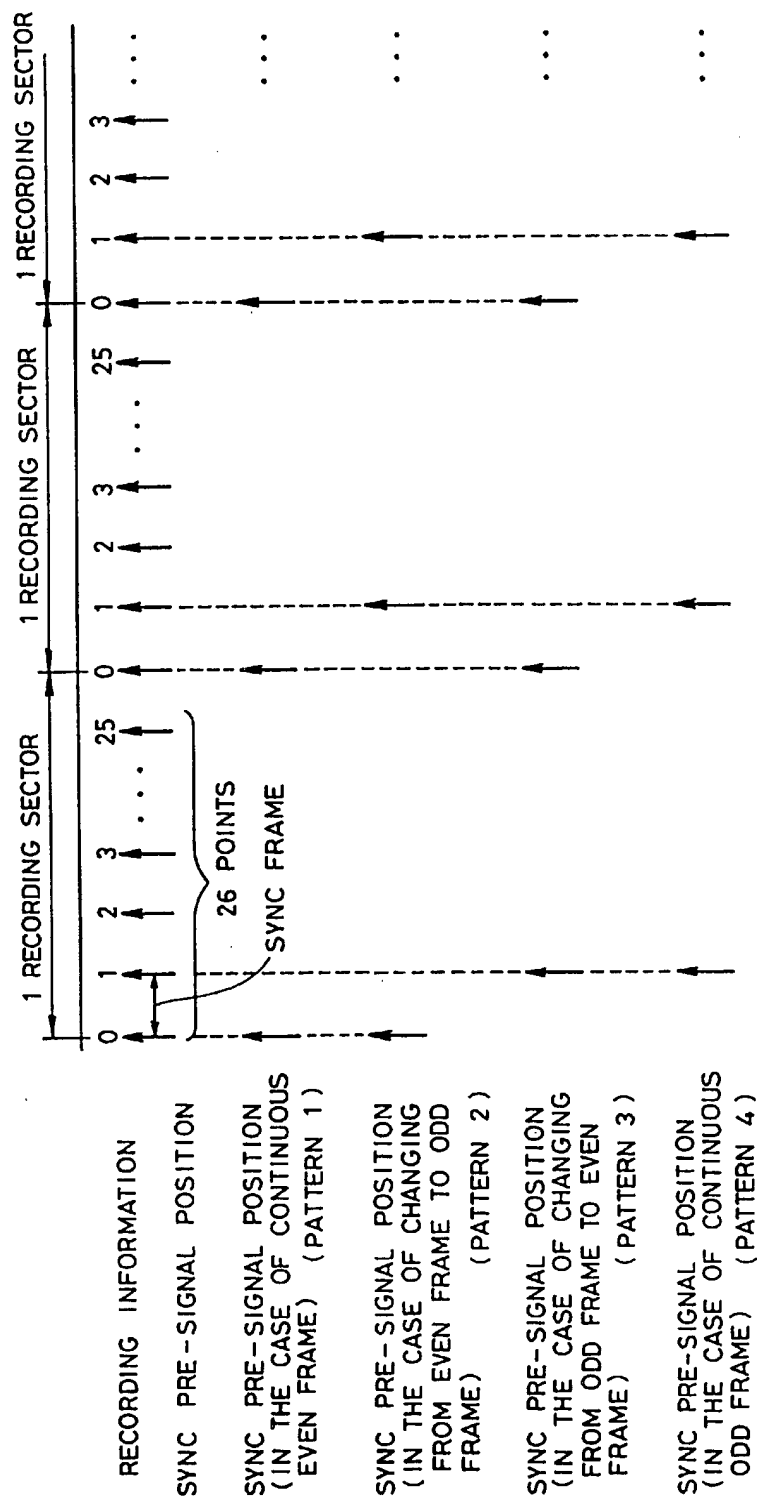


FIG. 4

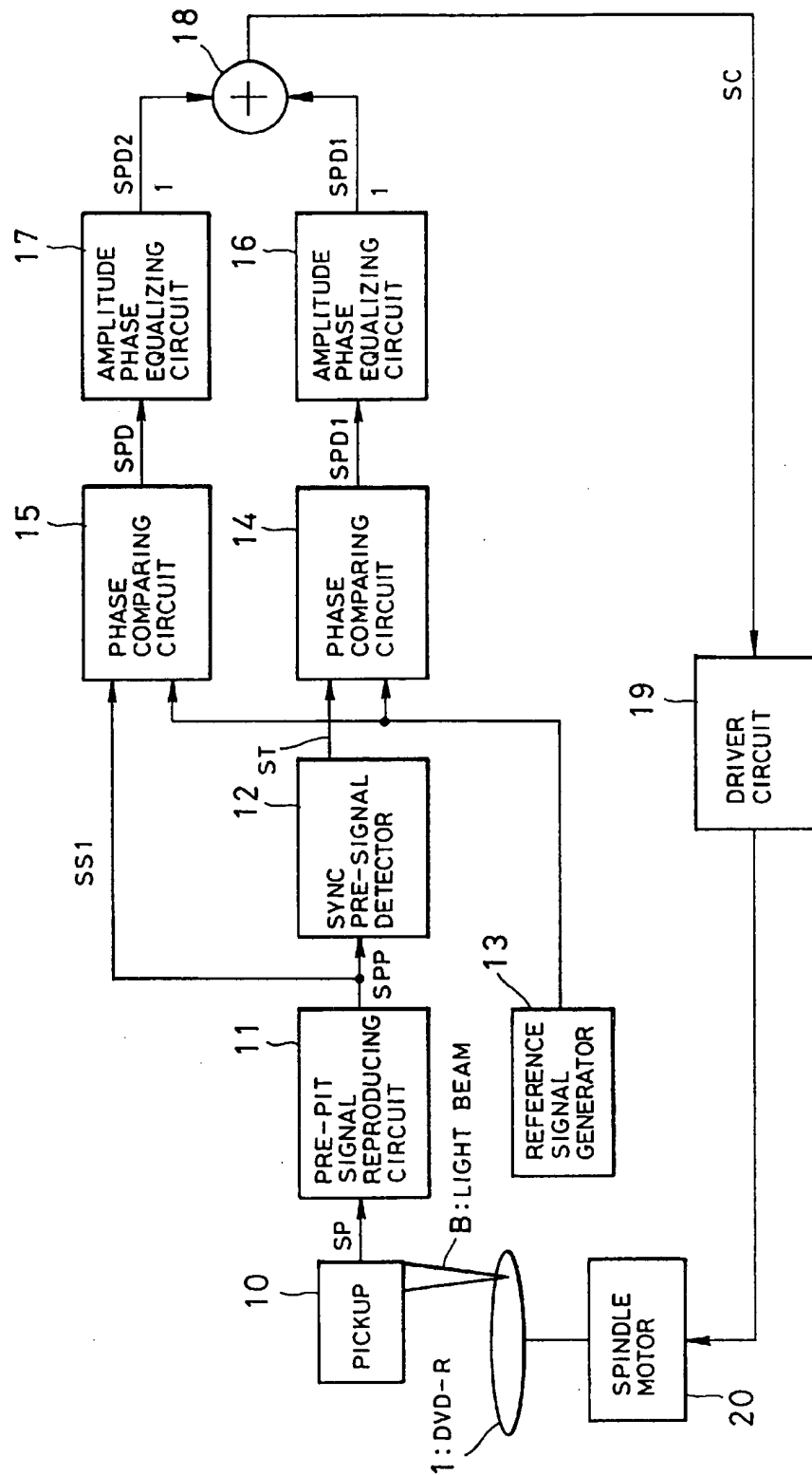


FIG. 5

SCHEMATIC CONSTRUCTION OF PICKUP AND PRE-PIT
SIGNAL GENERATOR OF EMBODIMENT

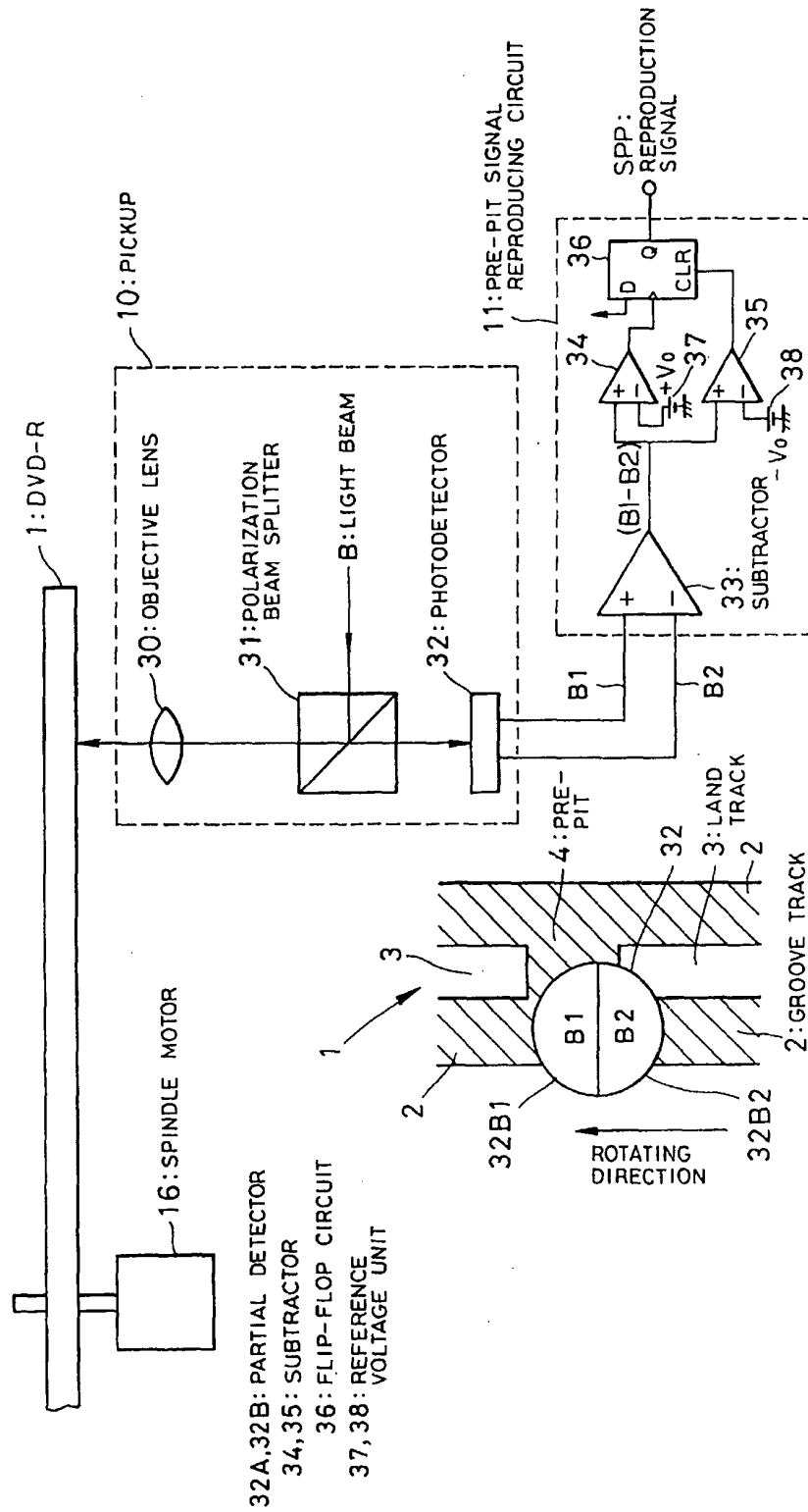


FIG. 6A

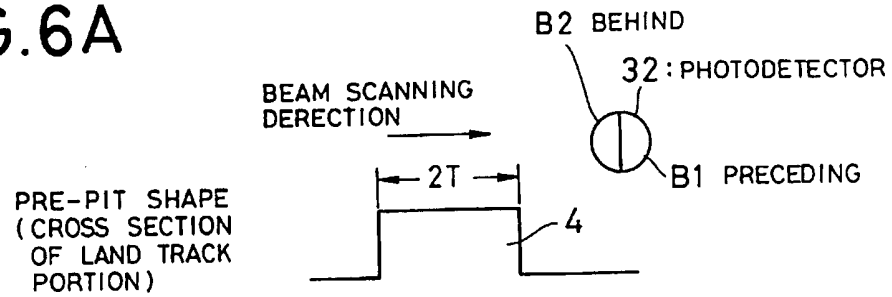


FIG. 6B

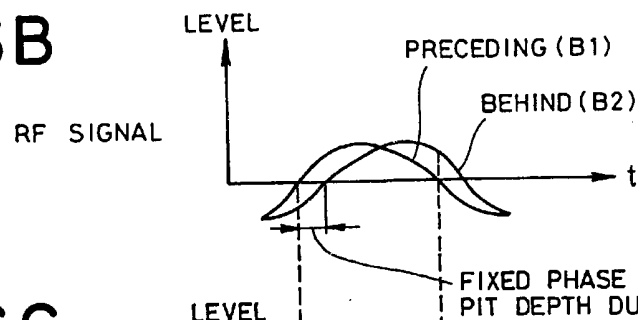


FIG. 6C

TANGENTIAL AND
PUSH-PULL SIGNAL
(-)

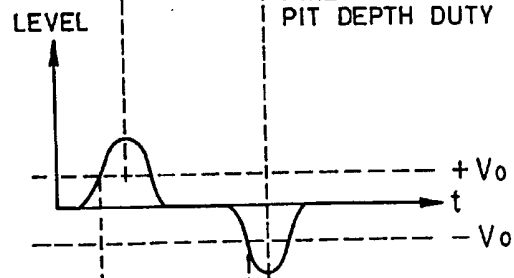


FIG. 6D

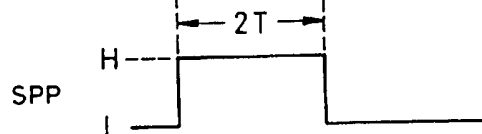


FIG. 7
PHASE COMPARING CIRCUIT 14

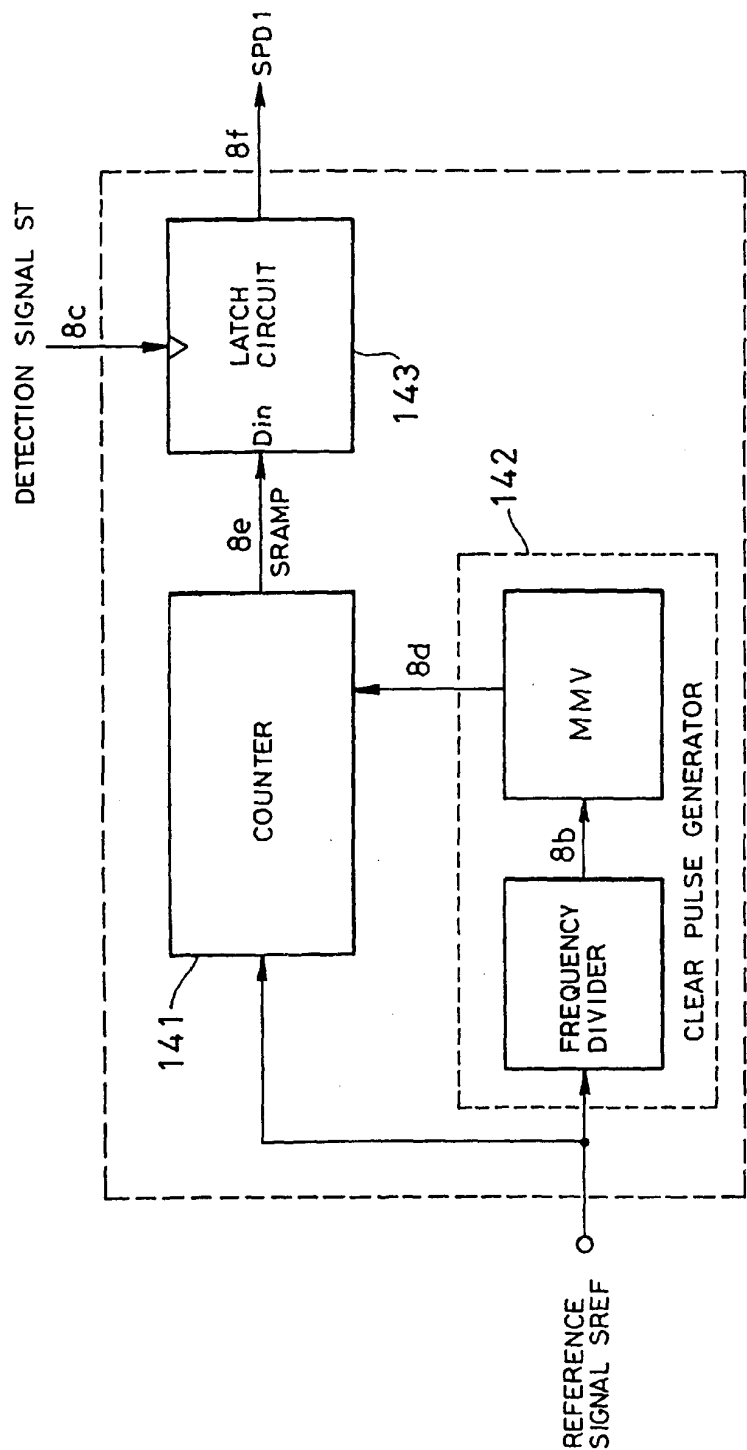
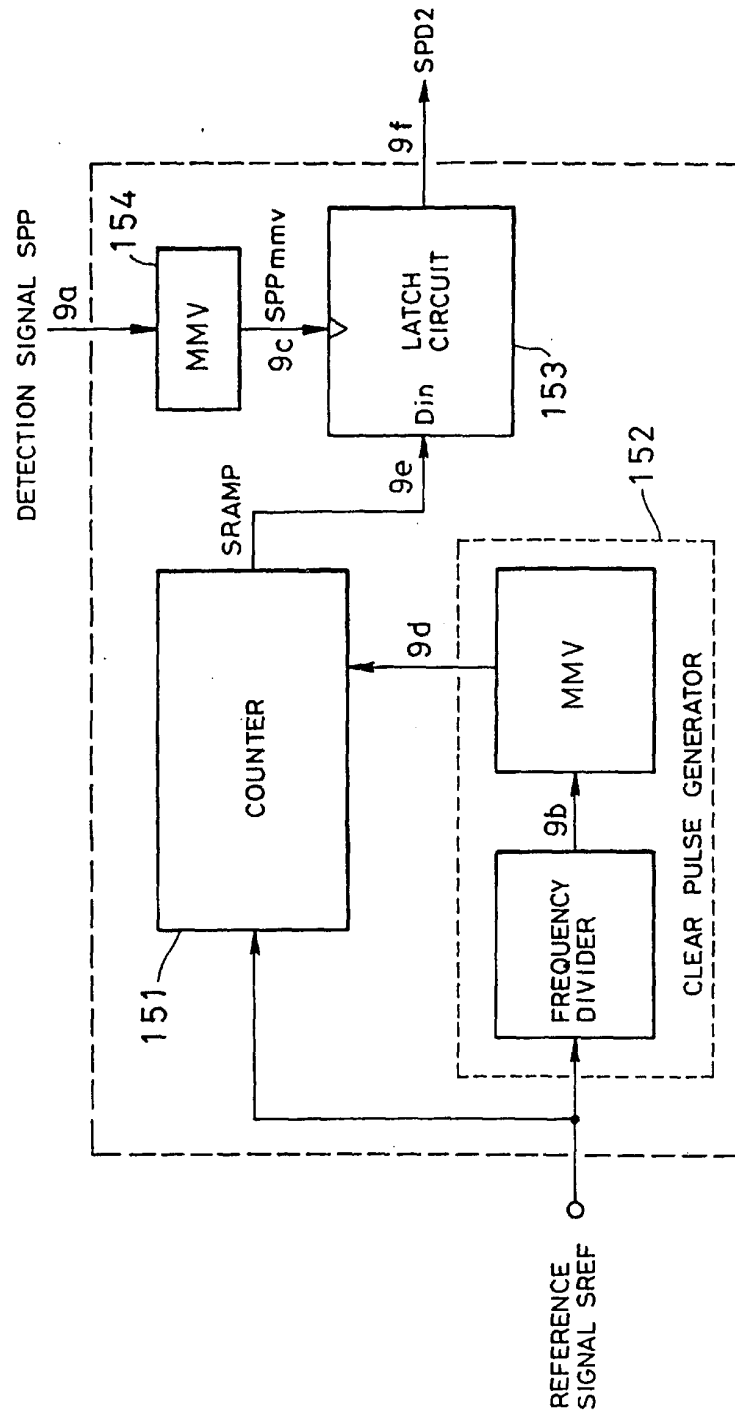


FIG. 8

PHASE COMPARING CIRCUIT 15



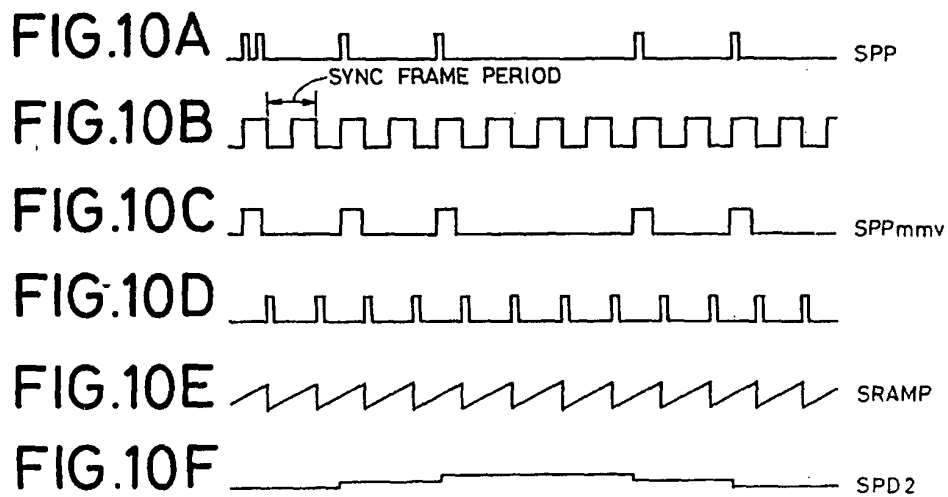
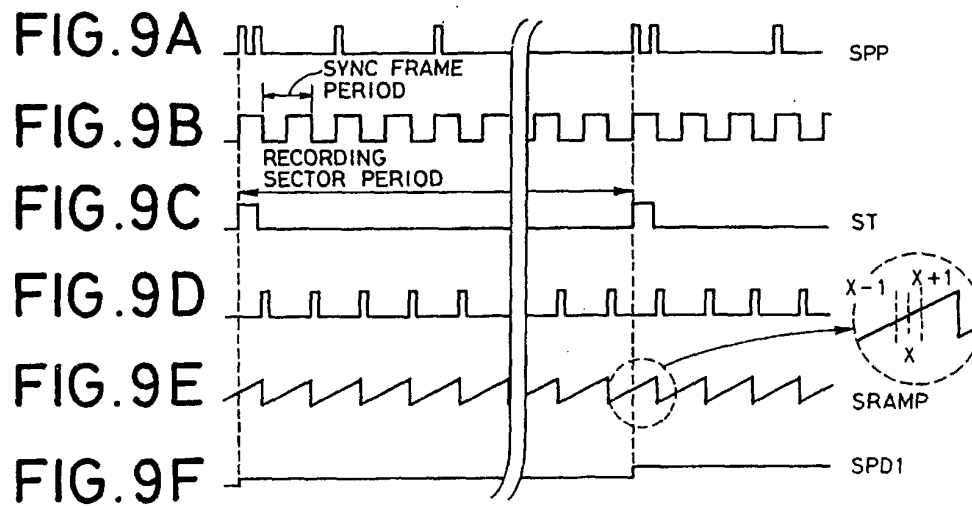


FIG. 11

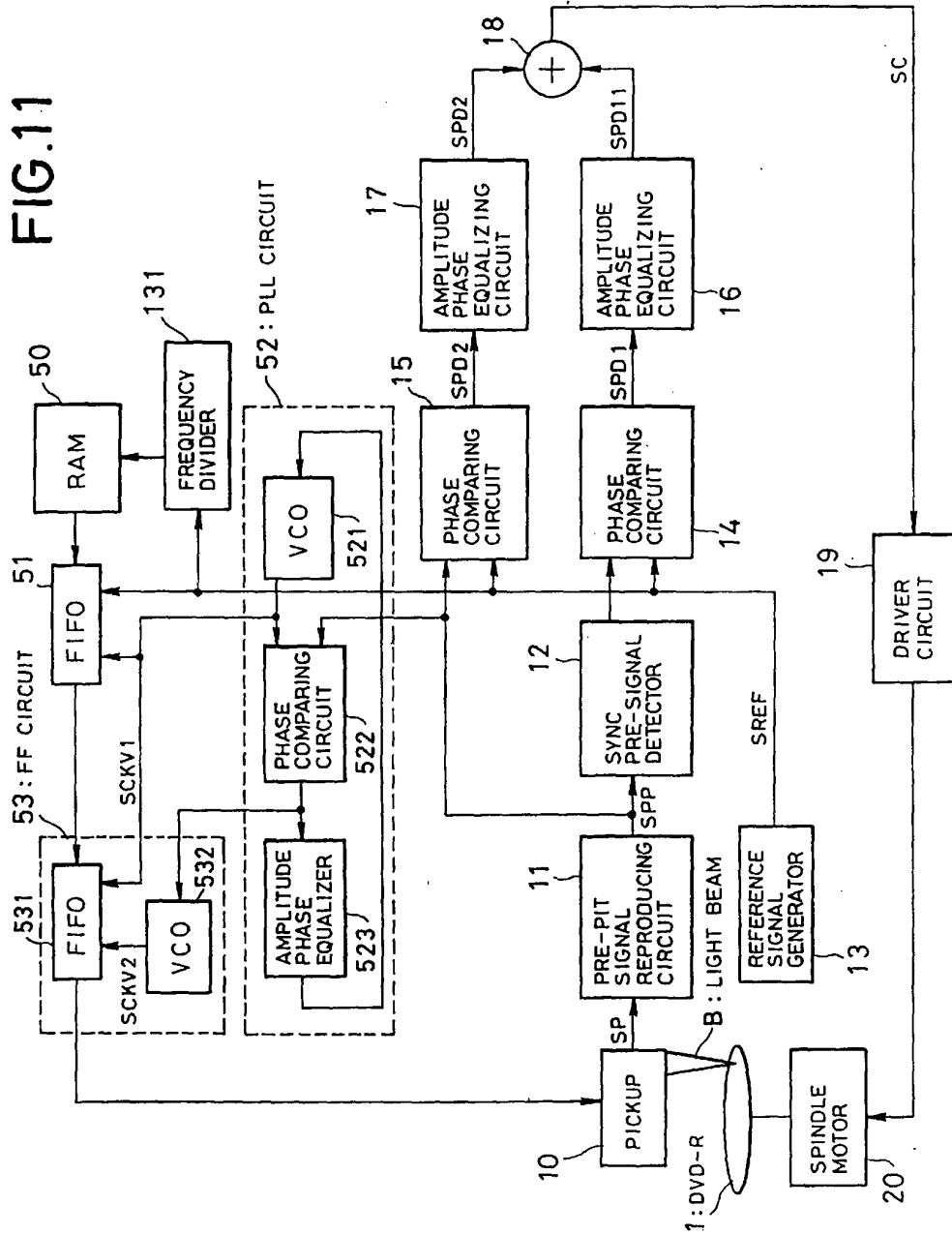


FIG. 12

PHASE COMPARING CIRCUIT 522

